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File: JPAB

Nov 9, 2001

PUB-NO: JP02001313642A

DOCUMENT-IDENTIFIER: JP 2001313642 A

TITLE: DEVICE AND METHOD FOR CONTROLLING SHARED BAND

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L3: Entry 2 of 2

File: JPAB

May 30, 2000

PUB-NO: JP02000151624A

DOCUMENT-IDENTIFIER: JP 2000151624 A

TITLE: CELL SCHEDULER

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Terms	Documents
(shar\$3 near3 equity)	2

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(shar\$3 near3 business) and entity

0

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result set*DB=JPAB; PLUR=YES; OP=OR*L4    (shar\$3 near3 business) and entity    0    L4L3    (shar\$3 near3 equity)    2    L3L2    (shar\$3 near3 equity) and (business near3 entity)    0    L2*DB=USPT; PLUR=YES; OP=OR*L1    (shar\$3 near3 equity) and (business near3 entity)    5    L1

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L3: Entry 2 of 2

File: JPAB

May 30, 2000

PUBN-NO: JP02000151624A  
DOCUMENT-IDENTIFIER: JP 2000151624 A  
TITLE: CELL SCHEDULER

PUBN-DATE: May 30, 2000

## INVENTOR-INFORMATION:

NAME	COUNTRY
NABESHIMA, MASAYOSHI	
YAMANAKA, NAOAKI	

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
NIPPON TELEGR & TELEPH CORP	

APPL-NO: JP10314538  
APPL-DATE: November 5, 1998

INT-CL (IPC): H04 L 12/28; H04 Q 3/00

## ABSTRACT:

PROBLEM TO BE SOLVED: To reduce packet transfer time while satisfying equity among connections sharing the same band in the middle of communication by giving a priority to a cell buffer where estimated queue length is equal to or less than the number of cells from the front cell to an EOP cell of the cell buffer.

SOLUTION: A VCI identifying part 1 identifies the VCI of an arriving cell and if the cell is the last cell (EOP cell) constituting a packet. A queue length reading part 4 reads the queue length of cell buffers 61 to 6n provided in every connection. An information managing part 2 estimates virtual queue length being the queue length of each cell buffer 61 to 6n provided that the cell buffers 61 to 6n transmit a cell according to a prescribed scheduling method. A deciding part 3 gives a priority to a cell buffer where the virtual queue length estimated by the part 2 is equal to or shorter than the packet base queue length of the buffers 61 to 6n.

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